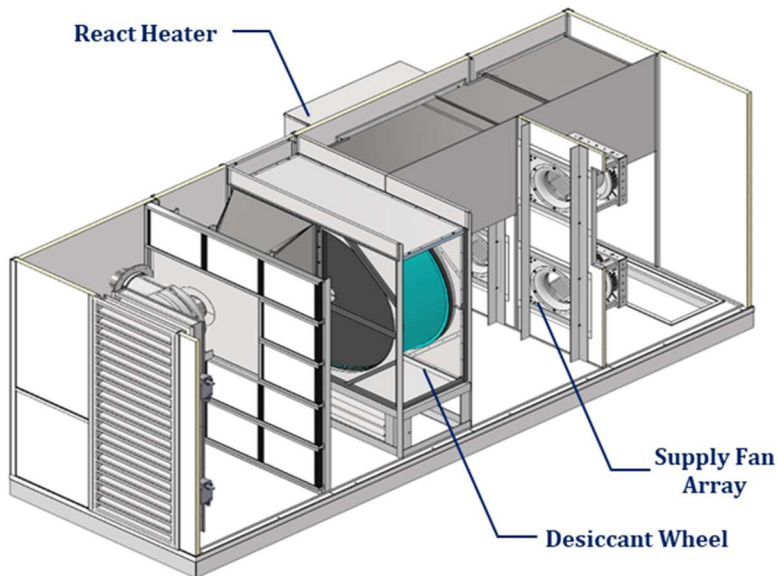




# EI Solutions Inc.

## A-SERIES DESICCANT DEHUMIDIFICATION SYSTEMS

Desiccant Dehumidification Experts



Desiccant dehumidification systems offer an effective solution to any application requiring room dewpoint temperatures below 50°F.

### MAXIMUM MOISTURE REMOVAL USING LESS ENERGY!

The EI Solutions' A-Series desiccant dehumidification systems offer uninterrupted moisture control regardless of climate, operations or occupancy for a wide range of applications.

Reactivation heat is typically provided by a natural gas burner but can also be propane, steam, hot water or electric. The reactivation heater modulates in response to the moisture load meaning it never uses more energy than needed to meet current dehumidification requirements. Additional energy savings is provided by a desiccant wheel bypass reducing supply fan energy when dehumidification is not required.

The A-Series desiccant units employ a supply fan array. A supply fan array provides many benefits over a single fan including a) redundancy, b) higher efficiency, c) quieter operation, and d) easier maintenance and lower replacement costs.

The performance and efficiency of the A-Series is optimized through the on-board controller's proprietary programming. EI Solutions brings over 25-years of developmental experience to every logic loop that is written into the control sequence.

The A-Series offers independent HVAC & Dehumidification functions so humidity control never needs to be sacrificed.

## A-Series

### STANDARD FEATURES

- 2,500-20,000 scfm
- 400mm Silicate Wheel
- Supply Fan Array
- Modulating (0-100%) Outside and Return Air Dampers
- DH Wheel Bypass Damper
- Double Wall Construction
- Indoor or Outdoor Installation
- Stand-Alone Unit
- Microprocessor with BMS Interface
- Space Dewpoint or Supply Air Dewpoint Control

### APPLICATIONS

- Ice Arenas
- Hospitals/Healthcare
- Food Industry
- Pharmaceutical
- Cold Storage
- Product / Archive Storage

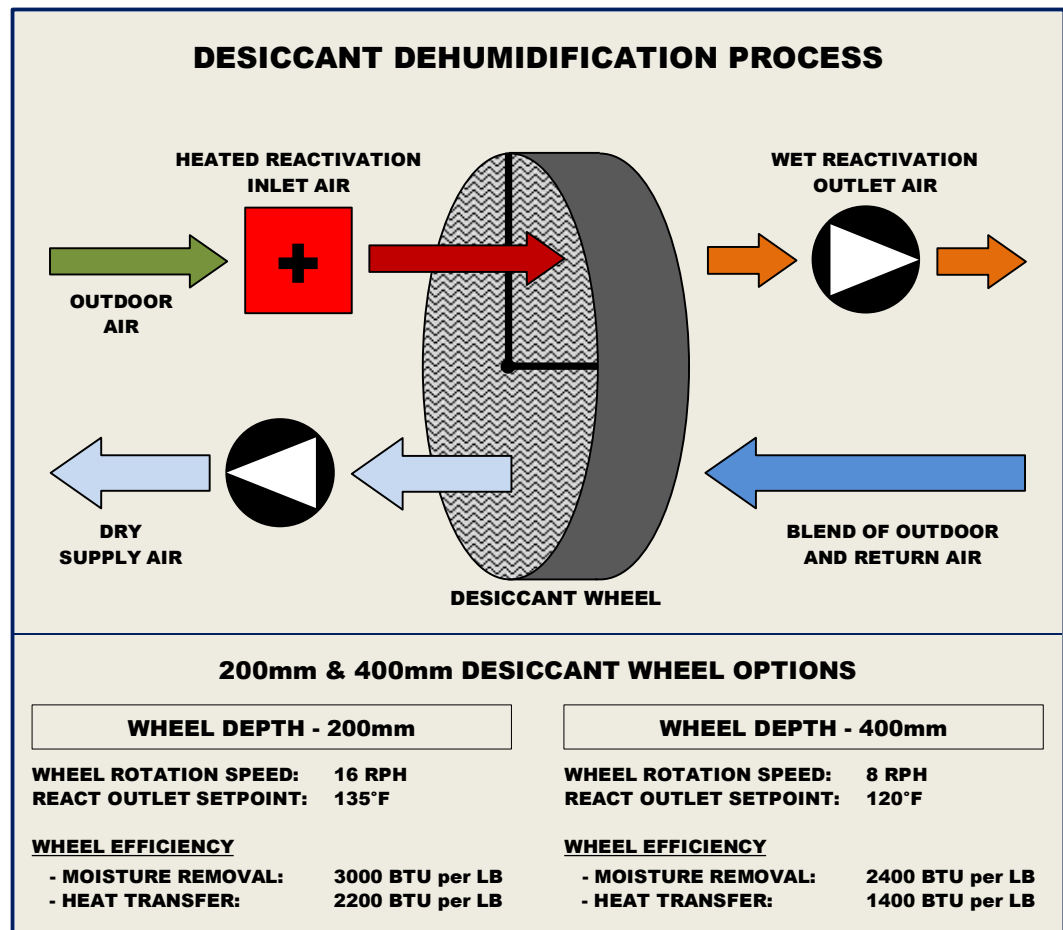


A-Series delivers maximum moisture removal capacity by incorporating either the 200mm or the more energy efficient 400mm deep active desiccant wheel. The 400mm deep wheel delivers better moisture removal efficiency while transferring less unwanted heat back into the supply air. Better efficiency translates into energy savings and lower operating costs.

The EI Solutions A-Series product line is available in a wide range of standard and pre-engineered sizes. All units are designed to provide ease of serviceability. Access doors are located upstream and downstream of all major components.

### OPTIONS

- Filter Upgrades
- Energy Recovery Module
- Integrated Cooling & Heating Modules
- Painted Galvanized Steel or Aluminum Construction



STANDARD MODEL	A10	A20	A25	A30	A35	A40
<b>Supply Airflow (SCFM)</b>	2,500	5,000	7,500	10,000	15,000	20,000
<b><u>Desiccant Wheel</u></b>						
Diameter x Depth (mm)	965 x 400	1050 x 400	1300 x 400	1525 x 400	1940 x 400	2190 x 400
Capacity (lbs/hr)	100	150	225	300	450	600
<b><u>Reactivation Circuit</u></b>						
Airflow (SCFM)	1,250	1,500	2,250	3,000	4,500	6,000
Reactivation Heater (MBH)	200	400	550	750	1,100	1,500
<b><u>Electrical Requirements</u></b>						
460/3/60 (FLA)	12	20	25	30	48	60
575/3/60 (FLA)	10	16	20	24	38	48
<b><u>Approximate Dimensions</u></b>						
Length (inches)	192	192	192	192	384	384
Width (inches)	60	70	70	80	96	116
Height (inches)	84	92	92	102	119	112
Weight (lbs)	4,000	4,500	5,000	6,000	15,000	18,000